GLBiocontrol products

DNA PURE-FLASH

DNA purification kit for 96 reactions

Next-generation purification method

Real-time PCR, a molecular biology technique, is a powerful and rapid tool for the specific detection of microorganisms. This methodology, widely used in most countries, is already the subject of multiple ISO standards for the research of microorganisms in various fields, such as environment or food industry. It is based on the amplification and detection of specific genomic sequences.

Sample preparation (extraction and purification of nucleic acids) is the crucial step of the process. Indeed, this step should ensure complete removal of inhibitors without DNA loss.

With the **DNA PURE-FLASH** kit, our main goal was to eliminate PCR inhibitors while keeping optimal extraction performances.

The DNA PURE-FLASH kit provides a robust and reliable solution for the optimal extraction of DNA from bacteria while ensuring the removal of inhibitors for real-time PCR analysis.

Advantages of DNA PURE-FLASH technology

RAPID: extraction and purification in under 30 minutes.

SIMPLE: clear and easy-to-use.

ROBUST: compatible with different matrix.

EFFICIENT: elimination of PCR inhibitors.

PERFORMANCE: high extraction yields.

FLEXIBLE: compatible with multiple PCR kits.

Recovery
>> 50%
on all matrix

Very efficient purification
less than 1%
of inhibited sample

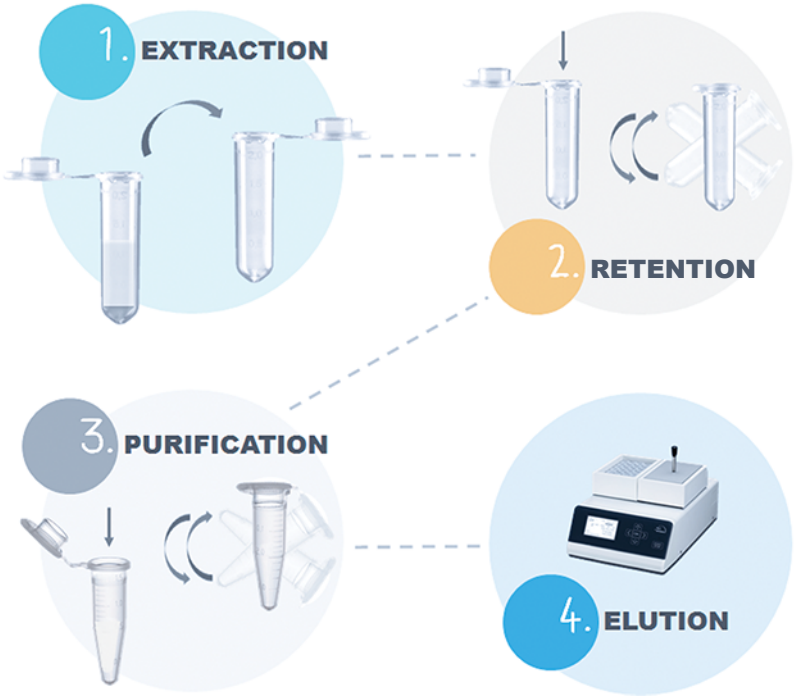
Sanitary water
limit of detection
44 GU/l

Industrial water
limit of detection
220 GU/l

Application fields

The **DNA PURE-FLASH** kit allows an optimal DNA extraction of the microorganisms present in the water sample. After extraction and purification, DNA can be analysed by molecular biology. This methodology can be used on all types of water and adapted to other matrix.

Protocol key points



1. Concentration of bacteria present in the sample by filtration or centrifugation, then, thermic lysis of the cells.

2. DNA retention using the Binding Buffer solution and creation of the polyplex.

3. Retention of the polyplex on the WCX resin and elimination of the supernatant.

4. Addition of the elution solution and DNA recovery by orbital stirring at 80°C.

Kit content

- 96 tubes containing 1.3 ml of *lysis buffer* DNA PURE-FLASH,
- 4 dropper-bottles (2.0 ml) of *binding buffer* DNA PURE-FLASH,
- 4 bottles (3.0 ml) of *elution buffer* DNA PURE-FLASH,
- 96 tubes of WCX resin,
- 96 microtubes of 2.0 ml,
- 96 microtubes of 1.5 ml,
- 192 tapered tips.

Equipment required

- Filtering manifold,
- Benchtop micro centrifuge,
- Polycarbonate membrane 0.45 µm,
- Thermomixer (temperature range: 25°C - 100°C / orbital stirring: ≥ 1500 rpm).

Optional:

- Vacuum pump,
- Ultrafiltration column.

4 easy ways to order

@ by e-mail at contact@gl-biocontrol.com,
by fax at + 33 (0) 9 55 25 40 31,
by phone at + 33 (0) 9 67 39 35 20,
by mail at GL BIOCONTROL - 9, avenue de l'Europe, Cap Alpha - 34,830 CLAPIERS (FRANCE).